

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 13, 2013

### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-9500550, issued to GASTAR EXPLORATION USA, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: CONAWAY HEIRS NO. 1

Farm Name: WEESE, ROGER & SANDRA

API Well Number: 47-9500550

Permit Type: Plugging

Date Issued: 12/13/2013

Promoting a healthy environment.

### **PERMIT CONDITIONS**

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### **CONDITIONS**

- 1. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 2. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01 1) Date:

3) API Well No:

Date: September 22, 2013 Operator's Well Number 2)

Conaway Heirs No.1

State

47

County

Permit

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

### APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE:	Oil		X	_ Liquid Injec			Waste Dispos				
	(If "Gas	s", Production		Undergroun	d Storage		) Deep	Sha	allow	X	_
5) LOCATION:	Elevation:	782'		Watershed:	McElro				1		
	District:	McElroy	05	County:	Tyler	95	Qua	adrangle	Shirley	7.5'	607
6) WELL OPERAT	OR: Gastar I	Exploration, Ltd.		494487685	7) DESIG	NATED	AGENT	Mike M	cCown		
Address		Main St., Suite 3	301			1	Address		Main St.,		
	Clarksb	ourg, WV 26301					7	Clarksb	urg, WV	2630	1
8) OIL & GAS INS	PECTOR TO	BE NOTIFIED			9) PLUGO	GING C	ONTRACTO	PR			
Name	Joe Taylor				Name						
Address	497 Claylick				Address	S					
	Ripley, WV	25271									
10) WORK ORDER	mi i	1 6 4	C 1	1. 11							
10) WORK ORDER:	The work o	TD- 1848	er of plu Coal:		is as follow	s:					
CASING		1D- 1848	Coai:	NA							
6 1/4" 1,715'	V.	Freepoint, Cu	t & Pull	1 4 7/8" Casin	g at 1 700'	(Est.)					
4 7/8" 1,735'		Gel		8 - 1765	g at 1,700	(LSt.)					
1,100		Plug No. 1		5 - 1600							
		Freepoint, Cu			g at 1,500'	(Est.)					
		Plug No. 2	155			,					
LINERS	be the second	Plug No. 3	85	0 - 750							
		Plug No. 4	40								
		Plug No. 5	10	0 - Surface	;						
				Nomes.							
		Free point, cut		NOTES:	as present	Dlaga 10	Of asmont	nlug at h	ottom		
		of any cas			gs present.						
		Fill Well Bore			ıll Cement P	luos			1		
		Erect Monum			in coment i	1455		.0	O		
							Rec	ive			
CEMENT PLUCS A	NUST BE (	DLASS A COL	10WT	WITH			-0	6,			
NO MORE TH	AN 390	Callo A	IA NO	OTHER			00,		2013		
ADDITIVES .	CRNENT !	ALUCS MUST	BE A	T LEAST 1	00 THICK		h.	6	L		non
				-2-11			,	101	A GE	gs gl Proter	The
								14-	Oil anont	37,	
								N Dept. of E	UNITONII.		
Inspector 24 hours l	before permi	itted work can c	ommeno	re				01.018			
mopeotor 2 · nours ·	serere permi	tica work can c					4	NDEL			
		/	/_/	1			,				
			1/	1							
Work order appr	oved by Insp	pector //w	11 2					Date 🖊	-58-1	3	
		11		-							
		/									

## 47-095-00550P

SOMMENCED.	Y HEIRS  OY  FORMAT  TOP BOTTO	19 COMPLE 19 COMPLE 19 COMPLE	TED UUIY .	STATE NOST 10 - 18198	CONTRACTOR CONTRACTOR CONTRACTOR CASI	N. NG REC		5282 W10-
g Injun	1766. 1803 <del>]</del> .			6111	MA CARDINA MA, LINE)	1715'	(TALT MEAS.)	ELETT IN WHEN ARM
				,,		1735	! !	
			•					
				KIND	PA j	CKERS SIZE		
•				•			DID'TH SET	. DATE!
	, .				TORPE	O RECORI		
			_	8-12-98	16 stzr	SHELL TOP	SHOT BOTTOM	RESUL
		:	.1	1-29-99 0-22-03 6-12-05	<b>≜</b> 0 30 : 50	18	953' (stat 928' 943'	i# :
	,	!		i	·	:		
· • -	/8 48 1.23 TION RECORD			SL. after	REMAR	Size	FLUG	<b>Р</b>
			.! . APPR	OVED BY		<b>.</b>	illo	· ·
• •	•	· · · -		•	000 000	S <sub>EC</sub>	Office of the state of the stat	and Gas Pro
		•			095-550		" " " " " " " " " " " " " " " " " " "	HORR

Permit

WW-4A Revised 6-07 Surface Owner Copy



1)	Date:	Septembe	r 22,	2013		
2)	Operator's Wel	l Number				
	(	Conaway I	leirs	No.1		
3)	API Well No:	47	-	095	-	0550

State

County

377 Eastview Drive Parkersburg, WV 26104 My commission expires June 11, 2020

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

Surface Ov	wner(s) to be served:	(a) Coal Operator:
(a) Name	Roger & Sandra Weese	Name NA
Address	H.C. 62, Box 7	Address
	Alma, WV 26320	From the State of
(b) Name	Kenneth & Jennifer Mason	(b) Coal Owner(s) with Declaration
Address	P.O. Box 99	Name NA
	Alma, WV 26320	Address
(c) Name	11ma, 11 1 20320	Tituless
Address		Name
Address		Address
		NA
Inchastor	Ine Taylor	(c) Coal Lessee with Declaration
i) Inspector	Joe Taylor 497 Claylick Road	
Address		Name
m 1 1	Ripley, WV 25271	Address
Telephone	304-380-7469	and the statement of the second statement of the secon
in the Take n filed th of the location	in the work, and describes the wo 2) The plat (surveyor's map) showing ason you have received these documents is intructions on the reverse side. However, you notice that under Chapter 22-6 of the West his Notice and Application and accompany Office of Oil and Gas, West Virginia Departure of the described on the attached Application are	andon a Well on Form WW-4B, which sets out the parties involved ell and its location and the plugging work order; and ng the well location on Form WW-6  s that you have rights regarding the application which are summarized you are not required to take any action at all.  Virginia Code, the undersigned well operator proposes to file or has ying documents for a permit to plug and abandon a well with the Chief artment of Environmental Protection, with respect to the well at the and depicted on the attached Form WW-6. Copies of this Notice, the gistered or certified mail or delivered by hand to the person(s) named as) on or before the day of mailing or delivery to the Chief.  Well Operator  Gastar Exploration, Ltd.  By:  GOO & Designated Agent  Mike McCown  COO & Designated Agent
above	(or by publication in certain circumstances	s) on or before the day of mailing or delivery to the Chief.
100 L 100 L	SECTION AND ADMINISTRATION OF THE PROPERTY OF	Office Chiton.
		Well Operator Gastar Exploration, Ltd.
		Well Operator Gastar Experience, Etc.
		By: Anh An Gon Mike McCown
		By: Mike McCown
		Its: COO & Designated Agent
		Address 229 W. Main St., Suite 301
		Clarksburg, WV 26301
		Telephone (304) 622-4796
Subscribed a	and sworn before me this 4th	daylof October, 2013
		Notary Public
		11 2020
	My Commision Expires	June 11, 2020
		OFFICIAL SEAL Notary Public, State of West Virginia
		Notary Public, State of West Virginia  Notary Public, State of West Virginia  Notary Public, State of West Virginia

#### SURFACE OWNER WAIVER

Operator's Well Number Conaway Heirs No.1 47- 095-00550P

#### INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

<u>Time Limits and methods for filing comments</u>. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

<u>Comments must be in writing.</u> Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

		-611 1120
I further state that I have no objection to the planned	d work described in these mat	erials, and I have no
objection to a permit being issued on those materials.	0 (	of 0"
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION B	Y A CORRORATION,
ETC.	0.	NOV 1 4 CONTO
X Sunt Illeur Date 1/7/13 Na	ame	anartmo protection
Signature		y Departal F.
Its	3	Date
W/lan-	ENV	110.
	Signature	Date

1. (31.311	WW-9

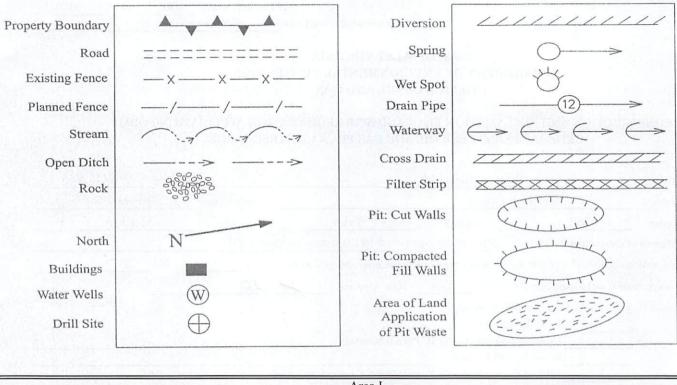
	Page	3	of	3	
API	Number 47-	095		<b>©</b> 0550	P
Operator's Well No.	Conaway	Heirs	No.1		

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

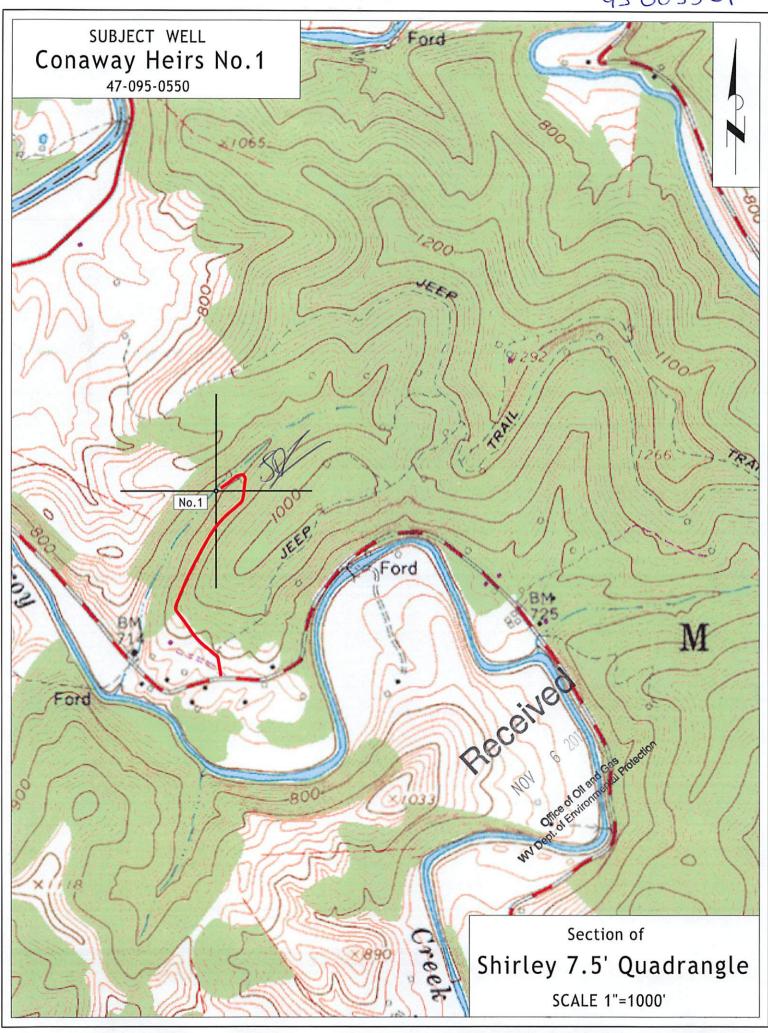
Operator	Gastar Expl	oration, Ltd.			C	P Code	494	487685	
Watershed _	McElroy Cı	eek			Quadrangle	Shi	rley 7.	5'	
Elevation	782'	County	Tyler		District	M	cElroy		
Description of	anticipated Pit Waste: I	Pluids encou	intered in plug	ging subj	ect well				
Do you anticip	ate more than 5,000 bbls of	water to comp	lete the proposed v	vell work?	Yes	No_	Х		
Will a synthet	ic liner be used in pit?	Yes	If so, what mil.	10	20				
Proposed Disp	osal Method For Treated Pi	t Wastes:							
_	X Land Applicat								
_	Underground . Reuse (at API		Permit Number						<u>)</u>
			m WW-9 for dispo	sal location)	)				
-									
Drilling mediu	m anticipated for this well?								
Control of the Contro	If oilbased, what type? Syn								
Additives to be					X7.1				
	disposal method? Leave in p If left in pit and plan to soli				NA no sandust	N	ΙA		
	Landfill or offsite name/per		irum wiii be useu:	Cement, m	ne, sawatist		Λ		
									_
applicable law I this applicatio for obtaining t penalties for s	sions of the permit are enfor or regulation can lead to er certify under penalty of law in form and all attachments he information, I believe the ubmitting false information ficial Signature	forcement active that I have per thereto and the at the informat	on. ersonally examined at, based on my in ion is true, accura	l and am far quiry of thos te and comp	niliar with the in: se individuals im lete. I am aware (	formation nediately	submitte	ed on ible	
	ficial (Typed Name)		Mike McCown	1			3/1		
Company Of			COO & Desig		ent	00		5013	
ounpain, or		77				70	. 6	ond C	jas proter
						<u> </u>	101	and	olal r
Subscribed a	nd sword before me this	. Suh	day of	of tob.	n 201	S Notary P	ubligeby.	of Environme	
My commiss	ion expires	11, .	2020				11,		
Form WW-9				F	ANTS/90.		AL SEAL		
QZ							PERKINS view Drive g, WV 26104	SON	

### Legend



		Area I			
posed Revegetation	n Treatment: Acres Disturbed	Approx. 0	.2 Ac. Pro	evegetation pH	
		Area II			
	<u> </u>	Approx. 0	.1 Ac.		
		Tons/Acre or Correct		6.5	
	Fertilizer (10-20-20 or Equivale		Lbs./Acre (500	lbs. Minimum)	
	Mulch Straw	2 Tons/Acre			
		SEED MIXTU	JRES		
	Area I (Location)			Area II (Road)	olar con tail :
Seed Type	Lbs/Ac.	ran and Colonia (State	Seed Type	on a life belong	Lbs/Ac.
Tall Fescue	40	electron on an Aufter	Tall Fescue	Santa organization	40
Ladino Clover	5		Ladino Clover	ALL THE PROPERTY OF	5
1600		0.000	Land State of the Control of the Con	VIS	ec
tach:	cation, pit and proposed area for	land application		Seco.	0013
	f involved 7.5' topographic sheet.			Receiv	Gas
	1000	1.55 YO 197		Offic w/ Dent- Date: 10~28-1	of Oil Brid Control Pr
Plan Approved by	1 festive			Office	E ENITON.
Comments:	6/1			Sept.	2,
/				mo	
Title:	Inspector	2,4		Date: 10-28-1	3
Field Reviewed	Yes			No	
	LENGE OF THE PERMIT				

9500550P



## West Virginia Department of Environmental Protection Office of Oil & Gas

## WELL LOCATION FORM: GPS

API: 47-	095 - 0550	WELL NO:	No.1
FARM NAME:	Conaway Heirs		
RESPONSIBLE PARTY NA	AME: Gastar Exploration	n, Ltd.	
COUNTY:	Tyler	DISTRICT:	McElroy
QUADRANGLE:	Shirley 7.5'		
SURFACE OWNER:	Roger & Sandra Weese		
ROYALTY OWNER:	Roger & Sandra Weese		
UTM GPS NORTHING:	4,364,413 (NAD 8	3)	
UTM GPS EASTING:	515,754 (NAD 8	3) GPS ELEVATION:	238 m. (782
Oil & Gas will not accept C  1. Datum: NAI height above 2. Accuracy to 3. Data Collect Survey Grade GI	on plat for a plugging permit on the a GPS coordinates that do not meet the D 1983, Zone:17 North, Coordinate e mean sea level (MSL) - meters.  Datum - 3.05 meters tion Method:  PS Post Processed Differential Real-Time Differential	following requirement	ts:
I the undersigned, hereby co	Real-Time Differential ertify this data is correct to the best ormation required by law and the reg	of my knowledge and gulations issued and	onated Acent
Signature		Title	SINGO
September 22, 201 Date	.3	Title Rec	Office of Oil and Gas Office of Oil and Gas Oil and Gas Office of Oil and Gas Oil and Cas Oil and Cas